Emission Calculations for Emission Fees
Diesel Electric Generators

Calculate emissions from fuel consumption records from previous January 1 through December 31. Make the calculations and provide assessable emissions estimate to ADEC no later than March 31.

Send calculations to

Alaska Department of Environmental Conservation
Air Emissions Estimate
410 Willoughby Avenue Suite 303
Juneau, Alaska 99801

Use the emission factors in the table below to make the assessable emissions estimate. First, enter the table by determining into which range the fuel consumption of the facility for the previous year falls. Identify the appropriate emission factor associated with the range of fuel consumed. Multiply the actual amount of fuel consumed by the emission factor to determine the tons of emissions. Multiply the tons of emissions by $12.52. See the example below the table.

Range of Fuel Consumption gallons	Emission Factor	Tons of Emissions
0 to 33096	Zero	Zero assessable
33096 to 153846	0.000302 tons/gal	
153846 to 281690	0.000367 tons/gal	
281690 to 416666	0.000402 tons/gal	
416666 to 476190	0.000426 tons/gal	
Over 476190	0.000447 tons/gal	

Example: Last year your power plant consumed 300,000 gallons of diesel fuel. 300,000 gallons falls into the range between 281,690 to 416,666 gallons. The appropriate emission factor is 0.000402 tons / gallon. Multiply the actual amount of fuel consumed (300,000 gallons) by the emission factor as follows.

300,000 gals x 0.000402 tons / gal = 120.6 tons

Multiply the tons times the fee per ton which is $12.52 / ton

120.6 tons x $12.52 / ton = $1509.91 emission fee